

Amendments to the Specification

Please replace the paragraph that begins on Page 16, line 19 and carries over to Page 17, line 8 with the following marked-up replacement paragraph:

-- The novel technique of the present invention will now be briefly summarized.

Following this summary, the algorithms which may be used to implement this technique will be described with reference to Figs. 3 and 4. As stated above, two trees exist at all times. Fig. 2B illustrates how two pointer values 225, 230 are used in the present invention to point to the two trees 245, 250: 245, 260. According to the preferred embodiment, these pointer values are stored in contiguous storage 240 so that both values can be retrieved and set with a single atomic LM instruction. Every node in the two trees has a pointer to its twin node in the other tree, as is shown in Fig. 2C using pairs of lines of various styles. It is not necessary that these twin pointers reside in contiguous storage. --